GE Field Control Series Service Manual

IC670MDL641

1. Description

48VDC Pos./Neg. Logic Input, 16 Point, Grouped MDL641 Field Control IC670 IC670MD IC670MDL The field control unit with the product code IC670MDL641 is designed by GE Fanuc and it has a rated voltage of 48 Volts DC and an input voltage range 0 to 60 Volts DC. The module has 16 inputs and it features an on-state voltage of 34 to 60 Volts (positive logic) and -34 to -60 Volts (negative logic). Technical specifications for IC670MDL641

2. Specifications

Specification	Value
Brand	**GE Fanuc**
Series	**Field Control**
Part	**Number IC670MDL641**
Rated	**Voltage 48 Volts DC**
Input	**Voltage Range 0 to 60 Volts DC**
Number	**of Inputs 16**
Current	**(User Input) 2.5 milli Amps per point at 48 Volts DC**
Isolation	**Voltage 250 Volts AC (continuous) / 1500 Volts AC for 1 minute**
Input	**Impedance 10K minimum**
On-state	**Voltage +34 to +60 Volts (positive logic) / -34 to -60 Volts (negative logic)**
Off-state	**Voltage 0 to +10 Volts (positive logic) / 0 to -10 Volts (negative logic)**
On-state	**Current 0.3 to 3 milliamps**
Off-state	**Current 0 to 0.5 milliamps**
Response	**Time (On) 6 milliseconds (typical) / 10 milliseconds (maximum)**
Response	**Time (Off) 6 milliseconds (typical) / 20 milliseconds (maximum) Description**
The	**IC670MDL641 module is a field control module used with programmable logic controllers that are made for industrial usage. The unit is designed and manufactured by GE Fanuc and it is compatible with the following modules: the IC670, the IC670MD, and the IC670MDL modules. All inputs on the**

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Brand GE Fanuc

Series Field Control

Part Number IC670MDL641

Rated Voltage 48 Volts DC

Input Voltage Range 0 to 60 Volts DC

Number of Inputs 16

Current (User Input) 2.5 milli Amps per point at 48 Volts DC

Isolation Voltage 250 Volts AC (continuous) / 1500 Volts AC for 1 minute

Input Impedance 10K minimum

On-state Voltage +34 to +60 Volts (positive logic) / -34 to -60 Volts (negative logic)

Off-state Voltage 0 to +10 Volts (positive logic) / 0 to -10 Volts (negative logic)

On-state Current 0.3 to 3 milliamps

Off-state Current 0 to 0.5 milliamps

Response Time (On) 6 milliseconds (typical) / 10 milliseconds (maximum)

Response Time (Off) 6 milliseconds (typical) / 20 milliseconds (maximum) Description

The IC670MDL641 module is a field control module used with programmable logic controllers that are made for industrial usage. The unit is designed and manufactured by GE Fanuc and it is compatible with the following modules: the IC670, the IC670MD, and the IC670MDL modules. All inputs on the unit can be adjusted for operation with either positive or negative logic. The IC670MDL641 field control module operates within an input voltage range of 0 to 60 Volts DC and rated voltage of 48 Volts DC. The field control unit has 16 available inputs and it has a user input current of 2.5 milliamps per point. The isolation voltage of the unit is 250 Volts (continuous) and 1500 Volts for 1 minute. The individual points within a group are not isolated from each other. The power supply of the bus interface unit has a maximum current draw of 83 milliamps.

The IC670MDL641 field control module has LED indicators for output point status updates and field and backplane power status updates. As far as the input characteristics are concerned, the IC670MDL641 module has an input impedance of 10K and a response time (on-state) of 6 milliseconds (typical) and 10 milliseconds maximum. The off-state response time of the unit is 6 milliseconds (typical) and 20 milliseconds maximum. The on-state current is 0.3 milliamps to 3 milliamps and the off-state current is 0 to 0.5 milliamps. In addition to that, the on-state voltage is 34 to 60 Volts (positive logic) and -34 to -60 Volts (negative logic) and the off-state voltage is 0 to +10 Volts (positive logic) and 0 to -10 Volts (negative logic).